## **WHAT IS CLAIMED IS:**

1	1.	An article of footwear comprising:
2		an upper;
3		an outsole defining a ground engaging surface;
4		a sole disposed between said upper and said outsole, said sole
5	including an energy return system;	
6		wherein said energy return system comprises a first rigid plate, a
7	second rigid plate spaced a predetermined distance from said first rigid plate, and	
8	at least one separating element disposed therebetween to maintain the spacing	
9	between said plates.	

- 1 2. The article of footwear of claim 1 wherein said first and second 2 plates comprise a material having a modulus of elasticity of at least approximately 3 32 x 10<sup>6</sup> lb/in<sup>2</sup>.
- 1 3. The article of footwear of claim 2 wherein said material comprises 2 carbon graphite.
- 4. The article of footwear of claim 1 wherein said at least one
  2 separating element comprises an elastomeric material.
- 1 5. The article of footwear of claim 1 wherein said at least one
- 2 separating element comprises two separating elements, a first one of said
- 3 separating elements being disposed in a toe area of said article of footwear and a
- 4 second one of said separating elements being disposed in a heel area of said article
- 5 of footwear.

- 1 6. The article of footwear of claim 1 wherein said first one of said 2 separating elements is generally arcuate.
- 7. The article of footwear of claim 1 wherein said first and second rigid plates define an energy return system.
- 1 8. An energy return system for use in a shoe sole, said system
- 2 comprising:
- a first rigid plate;
- 4 a second rigid plate spaced a predetermined distance from said first
- 5 rigid plate;
- at least one separating element maintaining the distance between
- 7 said first and second rigid plates.
- 1 9. The energy return system of claim 8 wherein said first and second
- 2 plates comprise a material having a modulus of elasticity of at least approximately
- $3 32 \times 10^6 \text{ lb/in}^2$ .
- 1 10. The energy system of claim 9 wherein said material comprises
- 2 carbon graphite.
- 1 11. The energy system of claim 10 wherein said first and second plates
- 2 are formed by a plurality of layers of carbon graphite.
- 1 12. The energy system of claim 8 wherein each of said first and second
- 2 rigid plates extends substantially the entire length of a foot.

- 1 13. The energy system of claim 12 wherein each of said first and 2 second rigid plates is configured to include a rocker bottom.
- 1 14. The energy system of claim 8 wherein each of said first and second 2 rigid plates extends only a portion of the length of a foot.
- 1 15. The energy system of claim 14 wherein each of said first and 2 second rigid plates extends from a toe area of the foot to an arch area of the foot.
- 1 16. The energy system of claim 8 wherein said at least one separating 2 element comprises an elastomeric material.
- 1 17. The energy system of claim 8 wherein said at least one separating 2 element comprises two separating elements, a first one of said separating elements 3 disposed in a forward end of the energy return system and a second one of said 4 separating elements disposed in a rearward end of the energy return system.
- 1 18. A shoe sole incorporating the energy return system of claim 8.
- 1 19. An article of footwear incorporating the shoe sole of claim 16.
- 1 20. A shoe sole for an article of footwear comprising:
- 2 an outsole defining a ground engaging surface;
- an upper rigid plate spaced from the outsole for attachment to an
- 4 upper;
- 5 a lower rigid plate disposed between the outsole and the upper rigid
- 6 plate; and

- 7 at least one separating element disposed between the upper and
- 8 lower rigid plates to maintain the separation thereof.